p1029: Box multiplication of linear binomials (v9)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3
2x	$12x^2$	6x
4	24x	12

$12x^2 + 6x + 24x + 12$

Combine like terms.

$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(4x + 6)$ and $(7x + 9)$.

*	4x	6
7x	$28x^2$	42x
9	36x	54

ANSWER: $28x^2 + 78x + 54$

Question 2

Use the box method to multiply $(9x - 4)$ and $(8x + 5)$.

*	9x	− 4
8x	72x^2	− 32x
5	45x	− 20

ANSWER: $72x^2 + 13x - 20$

Question 3

Use the box method to multiply $(6x - 3)$ and $(9x + 8)$.

*	6x	− 3
9x	54x^2	− 27x
8	48x	− 24

ANSWER: $54x^2 + 21x - 24$